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with them, and give us notice of the leaves as they appear, together with the stage of advancement of adjacent trees or shrubs.

§ 153. **Publications.**—1. *American Journal of Science and Arts.* The important paper by Dr. J. H. Gilbert, F.R.S., etc., on the "Sources of the nitrogen of vegetation in general, and of agricultural production in particular," begun in the January No., and continued in that of February, is completed in the March No. In the February No. is a notice by Dr. Gray, of Darwin's new work, on the "Effects of Cross and Self Fertilization in the Vegetable Kingdom," and Prof. Farlow has some interesting notices of European Cryptogamic publications in this and the April No. In the March No., Dr. Gray favors the use of the terms *dextrorse* and *sinistrorse*, as viewed from without; as a common screw, in which the spiral rises towards the right, is recognized as a right-handed screw. Grandeau and Bouton find that the stem of the mistletoe differs essentially from that of the tree on which it grows. In the April No., Dr. Crozier, of Louisville, Ky., tells of the destruction of forests of black walnut by the American mistletoe (*Phoradendron flavescens*, Nutt.).—2. *Field and Forest* for Feb. has notes on the preservation of fungi, by M. E. B., and an interesting account of Botany at the Centennial Exhibition, by Dr. Vasey.—3. *Botanical Gazette*: The February No. contains a list of Illinois lichens, by J. Wolf; a useful notice of changes in botanical nomenclature since the publication of the last edition of Gray's Manual, by Dr. Porter; a continuation of Dr. Garber's botanical rambles in East Florida; and a list of additions to Mr. J. Schneck's Flora of the Lower Wabash Valley. In the March No., Dr. Porter describes a new species of *Prunus* (*P. Alleghaniensis*), from Western Pennsylvania: "Stone turgid, somewhat obovoid, with a blunt point, a shallow groove on one side, and a broad flat ridge on the other. Nearly allied to *P. maritima*, Wang. var. b. T. & G. (*P. pygmaea*, Willd.). Mr. Elihu Hall commences a list of the trees and shrubs of Oregon; Mr. Austin gives Bryological notes; Mr. Green records *Verbascum Thapsus*, L., *Lepidium Draba*, L., and *Datura Tatula*, L., as introduced into California; and Mr. Schneck an interesting discovery of root leaves of *Alisma Plantago*.—4. *Onion Smut*: An Essay presented to the Massachusetts Society for Promoting Agriculture, by Prof. W. G. Farlow. This new fungus (*Urocystis Cepulae*, Frost, MS.) seems nearly confined at present to New England, where it is becoming mischievous, and is supposed to be derived from some wild onion.—5. Prof. Farlow sends us also, *Remarks on some Algæ found in the water supplies of the City of Boston*.—6. *Woolson & Co.'s Price List and Descriptive Catalogue of Handy Perennial Plants*. Passaic, N. J., P. O. Box 180.—7. *Forest Culture and Eucalyptus Trees*, by Elwood Cooper, San Francisco, Cal., contains, beside the lecture on the subject by Mr. Cooper, descriptions of 32 varieties of Eucalyptus, from Ferd. Mueller, of 22 varieties, from a Sydney catalogue, and several spirited lectures of von Mueller's on forest culture.—8. In the recent numbers of the *American Naturalist*, among the usual variety of interesting botanical notes, we notice a List of the Lichens growing within twenty miles of Yale College, by Franklin W. Hall.—9. *Report of the Botanist*, Charles H. Peck, from

the 27th Annual Report of the New York State Museum of Nat. Hist., for the year 1873, published in the report, Dec., 1875. Together with the account of new fungi, Mr. Peck gives suggestions in relation to their collection and preservation. *Aconitum Napellus*, L., seems to be established in Ulster Co., *Botrychium Lunaria*, Swartz, was found by Mr. Mundy, near Syracuse, *Rhododendron maximum*, L., by O. S. Phelps, near Chapel Pond, Essex Co. Small flowerless specimens of *Campanula rotundifolia*, L., collected near Port Jervis, have the rounded leaves on the upper part of the stem, the linear leaves below them. There are two fine plates, in one of which is an illustration of *Sphæria Arceuthobii*, Peck, with the host plant on its own host. Mr. Peck detected also a parasite of the third degree, a minute white mold on the perithecia of the fungus.—10. *Psyche*, having reached its 32d No., publishes an index of its first volume.—11. *Proceedings of the Academy of Natural Sciences of Philadelphia*, Oct.—Dec., 1876. Mr. Meehans remarks on the difference, in many species, between early and mature leaves, in regard to the greater or less amount of division. After citing many other cases, he applies his observations to mature trees of *Liriodendron* which have preserved the entire leaves of the youthful stage. He looks upon them as cases of arrested development, as would appear, he thinks, from their more slender growth and absence of seed cones.—12. *Les Collections Botaniques du Musée Royal de Physique et d'Histoire Naturelle de Florence, au printemps de 1874*, by Philippe Parlatore, Florence, 1874. A full and systematic account of the Florence Herbarium at the time of the Botanical Congress in Florence, May, 1874.—13. *Transactions of the Massachusetts Horticultural Society, for the year 1876, Part II.*—14. *Schedule of Prizes* offered by the same for 1877.—15. *Flora exsiccata of St. Louis, Mo.* Mr. H. Eggert, 918, Washington St., St. Louis, offers to those who wish to buy from his collection of about 500 species the privilege of choosing from the list such plants as they desire at 6 cents per species in full and complete specimens. Mr. Eggert refers to Dr. Engelmann.—16. *Naturalists' Directory*, containing the names of Naturalists, arranged alphabetically, with an index arranged according to departments, and interleaved for additions. It contains the names of about 330 botanists. Naturalist's Agency, Salem, Mass. This Agency undertakes to supply naturalists with books, instruments, material, etc.

§ 154. **Sycamore.**—It is well known that in England this name is given to a species of Maple, *Acer Pseudo-Platanus*, L., while in this country the Button-wood, *Platanus occidentalis*, L., is the popular Sycamore. The true Sycamore, *Ficus Sycamorus*, L., a native of Egypt and Palestine, has oval, cordate, entire leaves, having no resemblance to either the Plane or the Maple. We have never been able to learn the history of this confusion of names.

Terms—One Dollar per annum beginning with the January number. For the Botanical Directory 30 cents. Supplement to Directory, 10 cents. Vols. I.—V., with index, and photograph of Dr. Torrey, \$3.75. Copies of Constitution and By-Laws of the Club, 25 cents. Address, WM. H. LEGGETT, 224, E. Tenth Street, New York. Money Orders on Station D, P. O., N. Y. All subscriptions or orders filled only on receipt of the money.

The Club meets regularly the last Tuesday of the month in the Herbarium, Columbia College, at 7:30 P. M. Botanists are invited to attend. DR. THURBER, the President of the Club, may be found at 245 Broadway.